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TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* \* \* \* \* Welcome to STN International \* \* \* \* \* \* \* \* \*

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America  
NEWS 2 "Ask CAS" for self-help around the clock  
NEWS 3 Jun 03 New e-mail delivery for search results now available  
NEWS 4 Aug 08 PHARMAMarketLetter(PHARMAML) - new on STN  
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now available on STN  
NEWS 6 Aug 26 Sequence searching in REGISTRY enhanced  
NEWS 7 Sep 03 JAPIO has been reloaded and enhanced  
NEWS 8 Sep 16 Experimental properties added to the REGISTRY file  
NEWS 9 Sep 16 CA Section Thesaurus available in CAPLUS and CA  
NEWS 10 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985  
NEWS 11 Oct 24 BEILSTEIN adds new search fields  
NEWS 12 Oct 24 Nutraceuticals International (NUTRACEUT) now available on STN  
NEWS 13 Nov 18 DKILIT has been renamed APOLLIT  
NEWS 14 Nov 25 More calculated properties added to REGISTRY  
NEWS 15 Dec 04 CSA files on STN  
NEWS 16 Dec 17 PCTFULL now covers WP/PCT Applications from 1978 to date  
NEWS 17 Dec 17 TOXCENTER enhanced with additional content  
NEWS 18 Dec 17 Adis Clinical Trials Insight now available on STN  
NEWS 19 Jan 29 Simultaneous left and right truncation added to COMPENDEX,  
ENERGY, INSPEC  
NEWS 20 Feb 13 CANCERLIT is no longer being updated  
NEWS 21 Feb 24 METADEX enhancements  
NEWS 22 Feb 24 PCTGEN now available on STN  
NEWS 23 Feb 24 TEMA now available on STN  
NEWS 24 Feb 26 NTIS now allows simultaneous left and right truncation  
NEWS 25 Feb 26 PCTFULL now contains images  
NEWS 26 Mar 04 SDI PACKAGE for monthly delivery of multifile SDI results  
NEWS 27 Mar 20 EVENTLINE will be removed from STN  
NEWS 28 Mar 24 PATDPAFULL now available on STN  
NEWS 29 Mar 24 Additional information for trade-named substances without  
structures available in REGISTRY  
NEWS 30 Apr 11 Display formats in DGENE enhanced  
NEWS 31 Apr 14 MEDLINE Reload  
NEWS 32 Apr 17 Polymer searching in REGISTRY enhanced  
NEWS 33 Jun 13 Indexing from 1947 to 1956 added to records in CA/CAPLUS  
NEWS 34 Apr 21 New current-awareness alert (SDI) frequency in  
WPIDS/WPINDEX/WPIX  
NEWS 35 Apr 28 RDISCLOSURE now available on STN  
NEWS 36 May 05 Pharmacokinetic information and systematic chemical names  
added to PHAR  
NEWS 37 May 15 MEDLINE file segment of TOXCENTER reloaded  
NEWS 38 May 15 Supporter information for ENCOMPPAT and ENCOMPLIT updated  
NEWS 39 May 16 CHEMREACT will be removed from STN  
NEWS 40 May 19 Simultaneous left and right truncation added to WSCA  
NEWS 41 May 19 RAPRA enhanced with new search field, simultaneous left and  
right truncation  
NEWS 42 Jun 06 Simultaneous left and right truncation added to CBNB

NEWS 43 Jun 06 PASCAL enhanced with additional data  
NEWS 44 Jun 20 2003 edition of the FSTA Thesaurus is now available

NEWS EXPRESS	April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0jb(JP), AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

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FILE 'HOME' ENTERED AT 15:18:22 ON 24 JUN 2003

FILE 'REGISTRY' ENTERED AT 15:19:19 ON 24 JUN 2003  
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**STRUCTURE FILE UPDATES:** 23 JUN 2003 **HIGHEST RN** 536496-82-9  
**DICTIONARY FILE UPDATES:** 23 JUN 2003 **HIGHEST RN** 536496-82-9

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

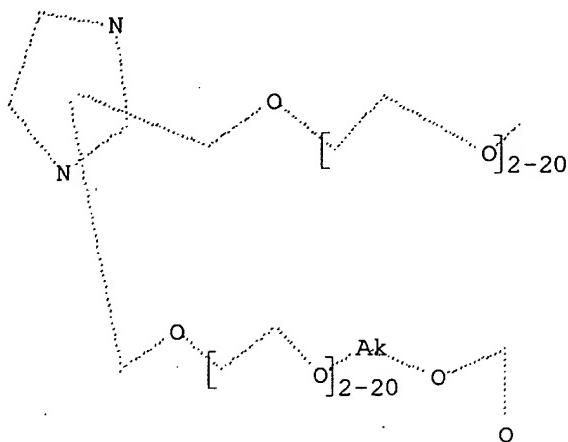
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=>  
Uploading 09765368.str

## L1 STRUCTURE UPLOADED

=> d  
L1 HAS NO ANSWERS  
L1 STR

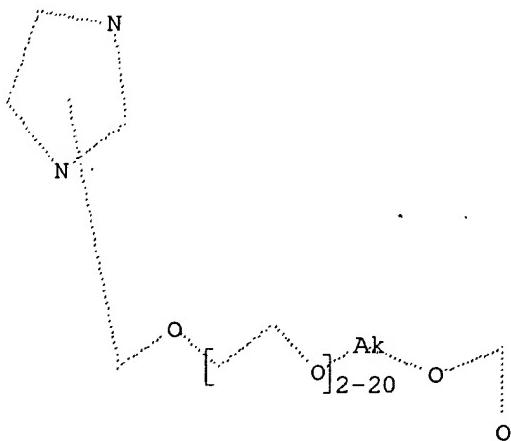


Structure attributes must be viewed using STN Express query preparation.

```
=> s 11
STRUCTURE TOO LARGE - SEARCH ENDED
A structure in your query is too large. You may delete
attributes or atoms to reduce the size of the structure
and try again.
```

```
=>
Uploading 09765368.str
L2      STRUCTURE UPLOADED
```

```
=> d
L2 HAS NO ANSWERS
L2      STR
```



Structure attributes must be viewed using STN Express query preparation.

```
=> s 12
SAMPLE SEARCH INITIATED 15:20:28 FILE 'REGISTRY'
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SAMPLE SCREEN SEARCH COMPLETED - 565 TO ITERATE

100.0% PROCESSED 565 ITERATIONS  
SEARCH TIME: 00.00.01

1 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 9874 TO 12726  
PROJECTED ANSWERS: 1 TO 80

L3 1 SEA SSS SAM L2

=> s 12 full  
FULL SEARCH INITIATED 15:20:33 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 11536 TO ITERATE

100.0% PROCESSED 11536 ITERATIONS  
SEARCH TIME: 00.00.01

8 ANSWERS

L4 8 SEA SSS FUL L2

=> fil caplus  
COST IN U.S. DOLLARS SINCE FILE TOTAL  
SESSION  
FULL ESTIMATED COST 148.55 148.97

FILE 'CAPLUS' ENTERED AT 15:20:37 ON 24 JUN 2003  
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FILE COVERS 1907 - 24 Jun 2003 VOL 138 ISS 26  
FILE LAST UPDATED: 23 Jun 2003 (20030623/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 14  
L5 2 L4

=> d ibib abs hitstr 1-2

L5 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1993:261011 CAPLUS

DOCUMENT NUMBER: 118:261011

TITLE: Polycarbonates and their use for preparation of bioerodible pharmaceutical matrices  
 INVENTOR(S): Ferruti, Paolo; Ranucci, Elisabetta; Bignotti, Fabio  
 PATENT ASSIGNEE(S): Mediolanum Farmaceutici S.P.A., Italy  
 SOURCE: PCT Int. Appl., 24 pp.  
 CODEN: PIXXD2

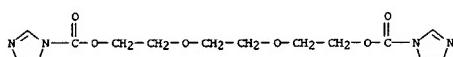
DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 922600	A1	19921223	WO 1992-EP1262	19920605
V: AU, BE, BG, BR, CA, CS, FI, HU, JP, KP, KR, LK, MG, MN, MW, NO, PL, RO, RU, SD, US				
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GN, GR, IT, LU, MC, ML, MR, NL, SE, SN, TD, TG				
AU 9219108	A1	19930112	AU 1992-19108	19920605
EP 508853	A1	19940330	EP 1992-911499	19920605
EP 508853	B1	19960918		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, SE				
JP 06508383	T2	19940922	JP 1992-511242	19920605
JP 3175772	B2	20010611		
AT 143030	E	19961015	AT 1992-911499	19920605
ES 2092116	T3	19961116	ES 1992-911499	19920605
US 5463012	A	19951031	US 1993-157153	19931213
PRIORITY APPLN. INFO.:			IT 1991-MI1645	A 19910614
			WO 1992-EP1262	A 19920605

AB Polycarbonates -[OCO<sub>2</sub>R<sub>1</sub>]OCO<sub>2</sub>R<sub>2</sub>]-a [a = 2-300; R<sub>1</sub>, R<sub>2</sub> = aliph. or alicyclic C<sub>2</sub>-18, polyoxyalkylene residue of -(CH<sub>2</sub>)<sub>n</sub>O-(CH<sub>2</sub>)<sub>m</sub>-CH(R<sub>3</sub>)(CH<sub>2</sub>)<sub>n</sub>-]-(I) (R<sub>3</sub> = H, Me; n = 1-3, m = 1-200, or a polyester residue of -(R<sub>4</sub>CO<sub>2</sub>)<sub>x</sub>-(R<sub>5</sub>CO<sub>2</sub>)<sub>y</sub>-R<sub>6</sub> (x, y = 1-50); R<sub>4</sub>, R<sub>5</sub> = aliph. C<sub>1</sub>-4 hydrocarbyl; R<sub>6</sub> = aliph. or alicyclic C<sub>2</sub>-18, polyoxyalkylene residue of I]. are used as bioerodible pharmaceutical matrices for slow release of the active ingredients. Thus, 1,1'-carbonyldimidazole was reacted with PEG to obtain diimidazolyl formate which was mixed with 1,6-hexanediol and heated at 60.degree. to obtain a polycarbonate liq.

IT 147658-27-3P 147658-28-4P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (prepn. and reaction of, with hexanediol, in prepn. of polycarbonates)  
 RN 147658-27-3 CAPLUS  
 CN 1H-Imidazole-1-carboxylic acid, 1,2-ethanediylbis(oxy-2,1-ethanediyl) ester (9CI) (CA INDEX NAME)



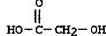
RN 147658-28-4 CAPLUS

L5 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS (Continued)

CN 3

CRN 79-14-1

CMF C2 H4 O3



CH 4

CRN 50-21-5

CMF C3 H6 O3



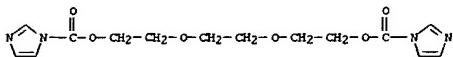
IT 147658-29-5P 147658-30-6P 147658-43-3P

RL: PREP (Preparation)  
 (prepn. of, as matrix for slow-released pharmaceuticals)RN 147658-29-5 CAPLUS  
 CN 1H-Imidazole-1-carboxylic acid, 1,2-ethanediylbis(oxy-2,1-ethanediyl) ester, polymer with 1,10-decanediol (9CI) (CA INDEX NAME)

CH 1

CRN 147658-27-3

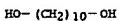
CMF C14 H18 N4 O6



CH 2

CRN 112-47-0

CMF C10 H22 O2



RN 147658-30-8 CAPLUS  
 CN 1H-Imidazole-1-carboxylic acid, 1,2-ethanediylbis(oxy-2,1-ethanediyl) ester, polymer with 1,12-dodecanediol (9CI) (CA INDEX NAME)

CH 1

CRN 147658-27-3

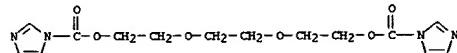
CMF C14 H18 N4 O6

L5 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS (Continued)  
 CN 1H-Imidazole-1-carboxylic acid, 1,2-ethanediylbis(oxy-2,1-ethanediyl) ester, polymer with 1,6-hexanediol (9CI) (CA INDEX NAME)

CH 1

CRN 147658-27-3

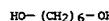
CMF C14 H18 N4 O6



CH 2

CRN 629-11-8

CMF C6 H14 O2

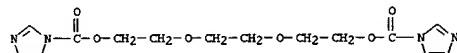


IT 147933-65-1P  
 RL: PREP (Preparation)  
 (prepn. of, as matrix for slow-release pharmaceuticals)  
 RN 147933-65-1 CAPLUS  
 CN 1H-Imidazole-1-carboxylic acid, 1,2-ethanediylbis(oxy-2,1-ethanediyl) ester, polymer with 1,2-ethanediol, hydroxyacetic acid and 2-hydroxypropanoic acid (9CI) (CA INDEX NAME)

CH 1

CRN 147658-27-3

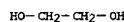
CMF C14 H18 N4 O6



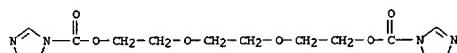
CH 2

CRN 107-21-1

CMF C2 H6 O2



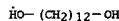
L5 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS (Continued)



CH 2

CRN 5675-51-4

CMF C12 H26 O2

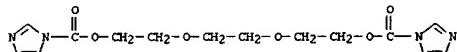


RN 147658-43-3 CAPLUS  
 CN 1H-Imidazole-1-carboxylic acid, 1,2-ethanediylbis(oxy-2,1-ethanediyl) ester, polymer with 1,4-cyclohexanediol (9CI) (CA INDEX NAME)

CH 1

CRN 147658-27-3

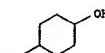
CMF C14 H18 N4 O6



CH 2

CRN 556-48-9

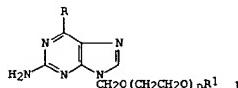
CMF C6 H12 O2



L5 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1978:6940 CAPLUS  
 DOCUMENT NUMBER: 88:6940  
 TITLE: Virucidal purine derivatives  
 INVENTOR(S): Schaeffer, Howard John  
 PATENT ASSIGNEE(S): Wellcome Foundation Ltd., UK  
 SOURCE: Ger. Offen., 43 PP.  
 CODEN: GWKEX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

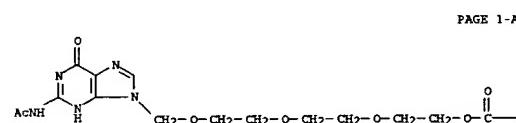
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2708828	A1	19770908	DE 1977-2708828	19770301
US 4060616	A	19771129	US 1976-662899	19760301
AU 7722760	A1	19780907	AU 1977-22760	19770228
BE 851974	A1	19770901	BE 1977-175385	19770301
DK 7700889	A	19770902	DE 1977-889	19770301
DK 142546	B	19801117		
DK 142546	C	19810803		
SE 7702231	A	19770902	SE 1977-2231	19770301
SE 430505	B	19831121		
SE 430505	C	19840301		
NL 7702176	A	19770905	NL 1977-2176	19770301
JP 52111594	A2	19770919	JP 1977-22114	19770301
JP 62022994	B4	19870520		
FR 2342971	A1	19770930	FR 1977-5922	19770301
FR 2342971	B1	19781103		
ES 456407	A1	19780701	ES 1977-456407	19770301
ZA 7701219	A	19781025	ZA 1977-1219	19770301
CA 1075237	A1	19800408	CA 1977-272884	19770301
GB 1569393	A	19800611	GB 1977-8475	19770301
AT 7701347	A	19800615	AT 1977-1347	19770301
AT 360552	B	19810126		
IL 51572	A1	19800731	IL 1977-51572	19770301
CH 629807	A	19820514	CH 1977-2572	19770301
HU 22434	O	19820528	HU 1977-W851	19770301
HU 180321	B	19830228		
ES 467943	A1	19781101	ES 1978-467943	19780316
AT 7807713	A	19800515	AT 1978-7713	19781027
AT 360041	B	19801210		
CH 632759	A	19821029	CH 1981-7002	19811102
PRIORITY APPLN. INFO.:			US 1976-662899	19760301
			AT 1977-1347	19770301
			CH 1977-2572	19770301

GI



## L5 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS (Continued)

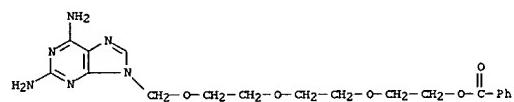
- AB The purine derivs. I ( $\text{R} = \text{NH}_2, \text{OH}, \text{Cl}; \text{R}^1 = \text{H, Ac, Bz, HCO; n = 1, 2, 3}$ ) (9 compds.) were prep'd. Thus,  $\text{Bz}(\text{OCH}_2\text{CH}_2)_2\text{OH}$  reacted with paraformaldehyde and  $\text{HCl}$  in  $\text{CH}_2\text{Cl}_2$  soln. to give  $\text{Bz}(\text{OCH}_2\text{CH}_2)_2\text{OCH}_2\text{Cl}$ , which reacted with 2-amino-6-chloropurine and  $\text{K}_2\text{CO}_3$  in DMF to give I ( $\text{R} = \text{Cl, R}^1 = \text{Bz, n = 2}$ ). I are useful as virucides at 0.5-50 mg/kg.
- IT 64844-19-5P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (Prepn. and hydrolysis of)
- RN 64844-19-5 CAPLUS  
 CN Acetamide, N-[6,9-dihydro-6-oxo-9-(12-oxo-12-phenyl-2,5,8,11-tetraoxadodec-1-yl)-1H-purin-2-yl]- (9CI) (CA INDEX NAME)



PAGE 1-A

## —Ph

- IT 64843-96-5P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (Prepn. of)
- RN 64843-96-5 CAPLUS  
 CN Ethanol, 2-[2-{2-[(2,6-diamino-9H-purin-9-yl)methoxy]ethoxy}ethoxy]benzoate (ester) (9CI) (CA INDEX NAME)



PAGE 1-B

## L5 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS (Continued)

=> fil reg			
COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION	
FULL ESTIMATED COST	10.32	159.29	
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION	
CA SUBSCRIBER PRICE	-1.30	-1.30	

FILE 'REGISTRY' ENTERED AT 15:22:11 ON 24 JUN 2003.  
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STRUCTURE FILE UPDATES: 23 JUN 2003 HIGHEST RN 536496-82-9  
DICTIONARY FILE UPDATES: 23 JUN 2003 HIGHEST RN 536496-82-9

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

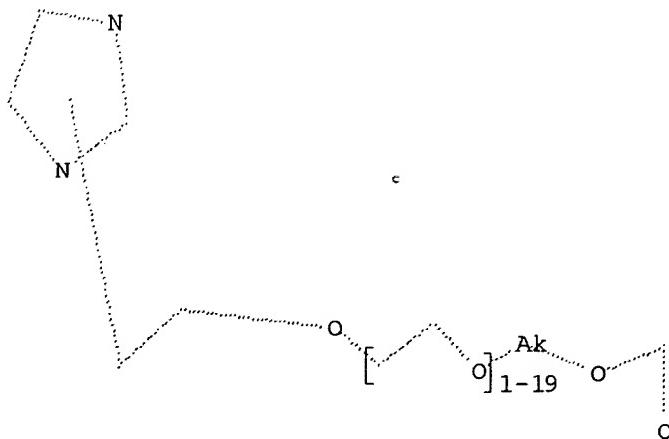
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP  
PROPERTIES for more information. See STNote 27, Searching Properties  
in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=>  
Uploading 09765368.str

L6 STRUCTURE uploaded

=> d  
L6 HAS NO ANSWERS  
L6 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 16

SAMPLE SEARCH INITIATED 15:22:37 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 932 TO ITERATE

100.0% PROCESSED 932 ITERATIONS  
SEARCH TIME: 00.00.01

1 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 16809 TO 20471  
PROJECTED ANSWERS: 1 TO 80

L7 1 SEA SSS SAM L6

=> s 16 full  
FULL SEARCH INITIATED 15:22:41 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 18677 TO ITERATE

100.0% PROCESSED 18677 ITERATIONS  
SEARCH TIME: 00.00.02

24 ANSWERS

L8 24 SEA SSS FUL L6

=> fil caplus  
COST IN U.S. DOLLARS  
FULL ESTIMATED COST

SINCE FILE TOTAL  
ENTRY SESSION

148.15 307.44

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)  
CA SUBSCRIBER PRICE

SINCE FILE TOTAL  
ENTRY SESSION

0.00 -1.30

FILE 'CAPLUS' ENTERED AT 15:22:46 ON 24 JUN 2003  
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FILE COVERS 1907 - 24 Jun 2003 VOL 138 ISS 26  
FILE LAST UPDATED: 23 Jun 2003 (20030623/ED)

This file contains CAS Registry Numbers for easy and accurate

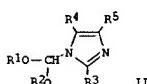
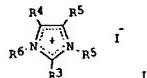
substance identification.

=> s 18  
L9 12 L8

=> d ibib abs hitstr 1-12

L9 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2002:264861 CAPLUS  
 DOCUMENT NUMBER: 136:279457  
 TITLE: Preparation of 1,3-dialkylimidazolium iodides  
 INVENTOR(S): Ono, Michio; Sen, Masakazu  
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.  
 CODEN: JICKAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

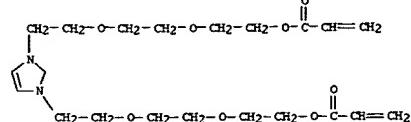
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002105058	A2	20020410	JP 2000-293430	20000927
PRIORITY APPN. INFO.:			JP 2000-293430	20000927
OTHER SOURCE(S):	CASREACT 136:279457; MARPAT 136:279457 GI			



AB Title compds. I [R3-R5 = H, (un)substituted alkyl; R6 = (un)substituted alkyl] are prep'd. by reaction of imidazoles II (R1, R2 = (un)substituted alkyl; R1R2 may form ring; R3-R5 = same as I) with alkyl iodides. II (R1 = R2 = Et, R3-R5 = H) prep'd. from imidazole and Et orthoformate was reacted with EtI in AcOEt under reflux for 2 h to give 98% I (R1 = R2 = R6 = Et, R3-R5 = H).  
 IT 406700-11-6P 406700-12-7P  
 RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)  
 (prep'n. of dialkylimidazolium iodides)  
 RN 406700-11-6 CAPLUS  
 CN 1H-Imidazolium, 1,3-bis[2-[2-[2-[(1-oxo-2-propenyl)oxy]ethoxy]ethoxy]ethyl]-, iodide (9CI) (CA INDEX NAME)

L9 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2003 ACS (Continued)

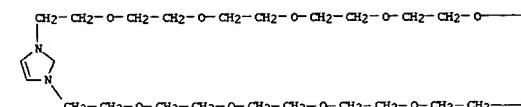
L9 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2003 ACS (Continued)



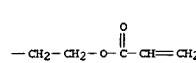
● I-

\*\*\* FRAGMENT DIAGRAM IS INCOMPLETE \*\*\*  
 RN 406700-12-7 CAPLUS  
 CN 1H-Imidazolium, 1,3-bis(19-oxo-3,6,9,12,15,18-hexaoxaheneicos-20-en-1-yl)-, iodide (9CI) (CA INDEX NAME)

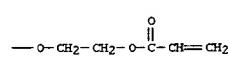
PAGE 1-A



● I-



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\*\*\* FRAGMENT DIAGRAM IS INCOMPLETE \*\*\*

L9 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2003 ACS (Continued)

L9 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2002:193335 CAPLUS  
 DOCUMENT NUMBER: 136:250254  
 TITLE: Electrolyte composition and its use in electrochemical battery  
 INVENTOR(S): Ono, Michio; Wariishi, Koji; Sen, Masakazu  
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 28 pp.  
 CODEN: JICKAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

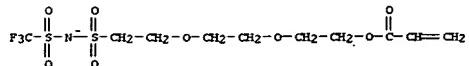
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002075442	A2	20020315	JP 2000-259550	20000829
PRIORITY APPN. INFO.:			JP 2000-259550	20000829
OTHER SOURCE(S):	MARPAT 136:250254			
AB	The compn. contains $(R1S2N-SO2R2)Y$ (R1, R2 = substituent; R1 and/or R2 has (un)substituted oxyethylene) Y = org. cation. The battery may be a photoelectrochem. cell or a secondary nonaq. battery. The compn. using the above salt does not evap. and shows good charge transporting characteristics.			

IT 403852-30-28  
 RL: DEV (Device component use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)  
 (electrolyte compn. with good charge transporting characteristics for photoelectrochem. or secondary nonaq. battery)  
 RN 403852-30-2 CAPLUS  
 CN 1H-Imidazolium, 1,2-diethyl-3-[2-[2-[(1-oxo-2-propenyl)oxy]ethoxy]ethyl]-, salt with 12,12,12-trifluoro-9,9,11,11-tetraoxido-3,6-dioxa-9,11-dithia-10-azadodec-1-yl 2-propenoate (1:1), homopolymer (9CI) (CA INDEX NAME)

CN 1

CRN 403852-27-7  
 CMF C14 H23 N2 O4 . C10 H15 F3 N O8 S2

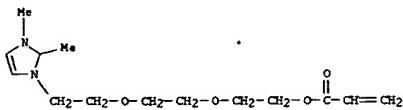
CN 2

CRN 403852-26-6  
 CMF C10 H15 F3 N O8 S2

CN 3

CRN 403852-25-5  
 CMF C14 H23 N2 O4

L9 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2003 ACS (Continued)



\*\*\* FRAGMENT DIAGRAM IS INCOMPLETE \*\*\*

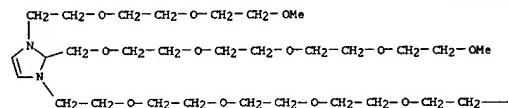
19 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2001:531955 CAPLUS  
DOCUMENT NUMBER: 135:124958  
TITLE: Polymerizing molten salt monomer, electrolyte composition, and electrochemical cell  
INVENTOR(S): Ono, Michio; Sen, Masakazu  
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 32 pp.  
CODEN: JKOKAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 20011199961	A2	20010724	JP 2000-13048	20000121
US 2001026890	A1	200111004	US 2001-765368	20010122
PRIORITY APPLN. INFO.:			JP 2000-13048	A 20000121

AB OTHER SOURCE(S): MARPAT 135:124950  
 The title monomer is represented as Q[Y<sub>1</sub>(CH<sub>2</sub>CH<sub>2</sub>O)<sub>n</sub>Y<sub>2</sub>]<sub>m</sub> [Q = N-contg. arom. heterocyclic group for forming a cation; Y<sub>1</sub> = divalent bond; Y<sub>2</sub> = {substituted} alkyl; n = 2-20 integer; m = .gtreq.2 integer; X = anion; .gtreq.1 of Y<sub>2</sub> contains a poly(m. group) Q or Y<sub>2</sub> may be linked to give a dimer or a tetramer]. The title electrolyte compn. contains a polymer obtained by polym. the monomer. An electrochem. cell contg. the electrolyte compn. is also claimed. Preferably, the cell contains a charge-transfer layer contg. the electrolyte compn. and a photosensitive layer contg. a dye-sensitized semiconductor. The electrolyte compn. has high charge-transfer property, photoelec. conversion efficiency, durability, and ion cond. and is esp. suitable for a secondary nonaq. battery and a solar cell.

IT 351182-10-0P  
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); PACT  
 (Reactant or reagent)  
     (prepn. and polymn. of; in prepn. of polymg. molten salt monomer for  
     polymer electrolyte compn.)  
 RN 351182-10-0 CAPLUS  
 CN 1H-Imidazolium, 1-[2-(2-(2-methoxyethoxy)ethoxyethyl]-3-(19-oxo-  
     3,6,9,12,15,18-hexadecahexacosane-20-en-1-yl)-2-(2,5,8,11,14-pentaoxapentadecac

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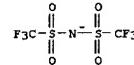


1

L9 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2003 ACS (Continued)

L9 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2003 ACS (Continued)

PAGE 1-B



$$-\text{O}-\text{CH}_2-\text{CH}_2-\text{O}-\overset{\text{O}}{\underset{||}{\text{C}}}-\text{CH}\equiv\text{CH}_2$$

\*\*\* FRAGMENT DIAGRAM IS INCOMPLETE \*\*\*

\*\*\* FRAGMENT DIAGRAM IS INCOMPLETE \*\*\*  
IT 351182-12-2P  
RL: IMF (Industrial manufacture); PREP (Preparation)  
(prepns. of; in prepn. of polymg. molten salt monomer for polymers)

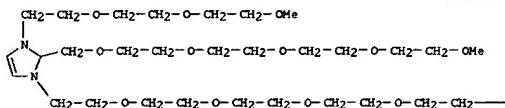
electrolyte compn.)

RN 351182-12-2 CAPLUS  
 CN 1H-imidazolium, 1-[2-(2-(2-methoxyethoxyethoxyethyl)-3-(19-oxo-6,9,12,15,18-pentaahexacos-20-en-1-yl)-2-(2,5,8,11,14-pentaahexacos-1-yl)-, salt with 1,1,1-trifluoro-N-[trifluoromethylsulfonyl]methanesulfonamide (1:1) (9CI). (CA INDEX NAME)

1

CRN 351182-11-1  
CMF C35 H65 N2 Q1

PAGE 1-A



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$$= \text{O} - \text{CH}_2 - \text{CH}_2 - \text{O} - \overset{\text{O}}{\underset{\parallel}{\text{C}}} - \text{CH} = \text{CH}_2$$

... FRAGMENT DIAGRAM IS INCOMPLETE. ...

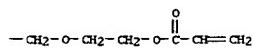
3

CRN 98837-98-0  
CNP C2 F6 N 04 S2



L9 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2003 ACS (Continued)

PAGE 1-B

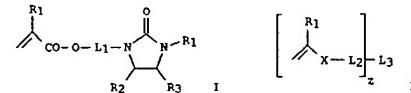


L9 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2000:638314 CAPLUS  
 DOCUMENT NUMBER: 133:244255  
 TITLE: Electrolyte for photoelectric converter and  
 photoelectrochemical cell  
 INVENTOR(S): Wariishi, Koji  
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 32 pp.  
 CODEN: JIKOQAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000251532	A2	20000914	JP 1999-52911	19990301
PRIORITY APPLN. INFO.:			JP 1999-52911	19990301
		G1		

• I-

\*\*\* FRAGMENT DIAGRAM IS INCOMPLETE \*\*\*



AB The invention relates to an electrolyte, suited for use in batteries, sensors, photoelec. cells, thus the electrolyte comprises the polymer prepd. from monomers represented by I and II [R<sub>1</sub>, R<sub>4</sub>, and R<sub>5</sub>= H, and alkyl group; R<sub>2</sub> and R<sub>3</sub> = H, alkyl and aryl groups; R<sub>2</sub> and R<sub>3</sub> may join to form a ring; L<sub>1</sub> and L<sub>2</sub> = divalent groups; L<sub>3</sub> = z-valent group, where z is 2-6 integers; X = -COO- and -CONR<sub>6</sub>-; R<sub>6</sub> = H and alkyl group].

IT 294176-72-0 294176-75-3

RL: DEV (Device component use); USES (Uses)  
(Electrolyte for photoelec. converter and photoelectrochem. cell)

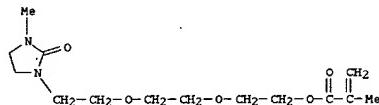
RN 294176-72-0 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,2-ethanediylbis(oxy-2,1-ethanediyl) ester, polymer with 2-[2-(2-(3-methyl-2-oxo-1-imidazolidinyl)ethoxy]ethoxy]ethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

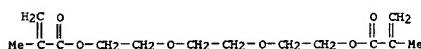
CH 1

CRN 294176-71-9  
CMF C14 H24 N2 O5

L9 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2003 ACS (Continued)

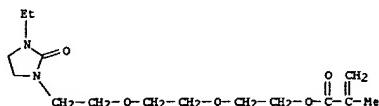


CH 2

CRN 109-16-0  
CMF C14 H22 O6

RN 294176-75-3 CAPLUS  
 CN 2-Propenoic acid, 2-methyl-, 2-[2-(2-(3-ethyl-2-oxo-1-imidazolidinyl)ethoxy]ethoxy]ethyl ester, polymer with 8-ethyl-8-[2-(2-[1-oxo-2-propenyl]oxy)ethoxy]ethoxy]methyl-3,6,10,13-tetraoxapentadecane-1,15-diyl di-2-propenoate (9CI) (CA INDEX NAME)

CH 1

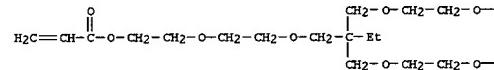
CRN 294176-74-2  
CMF C15 H26 N2 O5

CH 2

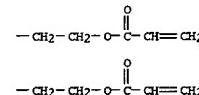
CRN 111951-06-5  
CMF C27 H44 O12

L9 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2003 ACS (Continued)

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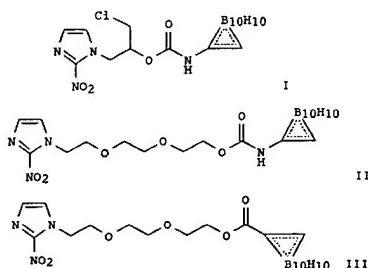
LS ANSWER 6 OF 12 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1996:711612 CAPLUS  
 DOCUMENT NUMBER: 126:28626  
 TITLE: Uptake and retention of nitroimidazole-carboranes  
           designed for boron neutron capture therapy in  
           experimental murine tumors: detection by 11B magnetic  
           resonance spectroscopy  
 AUTHOR(S): Wood, P. J.; Scobie, M.; Threadgill, M. D.  
 CORPORATE SOURCE: MRC Radiobiol. Univ., Didcot, OX11 ORD, UK  
 SOURCE: International Journal of Radiation Biology (1996),  
         70 (5), 587-592  
 CODEN: IJRBE7; ISSN: 0955-3002  
 PUBLISHER: Taylor & Francis  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

**AB** Two novel nitroimidazole-carboranes were examined for their uptake and retention in two exptl. murine solid tumors and in some normal tissues, using *in vivo* 11B magnetic resonance spectroscopy. The compds. were injected i.p. at 0.8 mmol/kg into mice bearing either the SCCVII/Ha squamous cell carcinoma or KHT sarcoma implanted intradermally on the mouse back. Boron from a polyether-isoxazole linked nitroimidazole-carborane (compd. 1) was detectable in both SCCVII/Ha and KHT tumors at 3 and 7 h after injection. The signal from the liver at these times was greater than that from the tumor but only a weak signal was obtained from the brain. At 24 h after injection the tumor signal was still present, as was that from the liver, which appeared to have increased over that for the earlier times. Signal from the brain had disappeared by 24 h. Boron from a polyether-carbamate linked nitroimidazole-carborane (compd. 2) was also detectable in both tumors at all times tested, and again was present in the liver. In addn., the 11B signal was detectable from the mouse brain, at early times, but was undetectable at 24 h. These preliminary data indicate that nitroimidazole-carboranes are taken up and retained in exptl. murine tumors in sufficient amounts to be detectable by *in vivo* 11B MRS and further that at 24 h after treatment there is differential retention between tumors and the brain.

IT 158565-49-2  
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); BIO (Biological study); PROC (Process); USES (Uses)  
(nitroimidazole-carbonates designed for boron neutron capture therapy  
attracting attention in tumors; 118 MRS detection).

RN 158565-49-2 CAPLUS  
CN Carbanic acid, 1,2-dicarbadoxideboran(12)-1-yl-, 2-[2-(2-nitro-1H-imidazol-1-yl)ethoxy]ethyl ester (SCI) (CA INDEX NAME)

L9 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 1994:655859 CAPLUS  
DOCUMENT NUMBER: 121:255859  
TITLE: Tumor-targeted boranes. Part 3. Synthesis of carbamate-linked nitroimidazolyl carboranes designed for boron neutron capture therapy of cancer  
AUTHOR(S): Scobie, Martin; Threadgill, Michael D.  
CORPORATE SOURCE: Sch. Pharmacy & Pharmacology, Univ. Bath, Bath, BA2 7AY, UK  
SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1994), (15), 2059-63  
DOCUMENT TYPE: CODEN: JCPRB4; ISSN: 0300-922X  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 121:255859  
GI

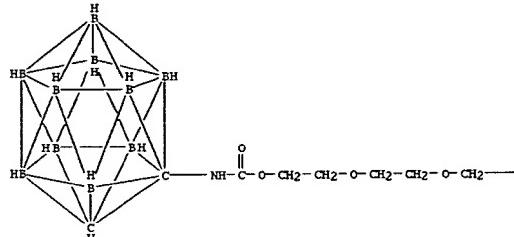


**AB** Carbamates targeted to specific tumor tissues are important for boron neutron capture therapy of cancer (BNCT). Carbamylation of 2-[2-(2-nitroimidazol-1'-yl)ethoxy]ethanol 5 and 1-(chloromethyl)-2-(2-nitroimidazol-1'-yl)ethanol 6 with carboran-1'-yl isocyanate (generated in situ by a Curtius rearrangement of carborene-1-carbonyl azide) gave the corresponding carbamate-linked nitroimidazolylcarbamones I and II. A similar reaction of 4-carboranylenyl isocyanate with 6 afforded the corresponding carbamate.

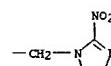
III  
IT 150529-81-8P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepns. and alc. deprotection of)  
RN 150529-81-8 CAPLUS  
CN Ethanol, 2-[2-(2-nitro-1H-imidazol-1-yl)ethoxy]ethoxy-, benzoate  
(ester) (9CI) (CA INDEX NAME)

L9 ANSWER 6 OF 12 CAPIUS COPYRIGHT 2003 ACS (Continued)

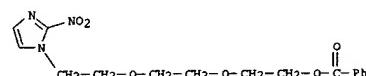
PAGE 1-A



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19 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2003 ACS (Continued)



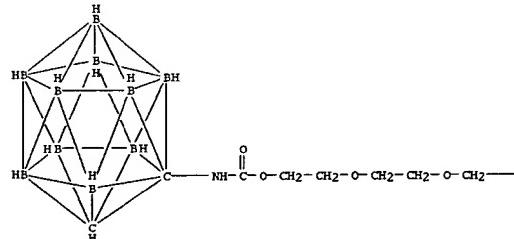
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IT 150565-49-2 150565-50-5P
RL SPN (Synthetic preparation); PREP (Preparation)
  (spec. of)

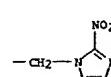
RN 150565-49-2 CAPLUS
CN Carbamic acid, 1,2-dibromo-10-decarboxyl-11-yl-, 2-[2-[2-(2-nitro-1H-imidazol-1-yl)ethoxy]ethoxy]ethyl ester (9CI) (CA INDEX NAME)

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PAGE 1 N



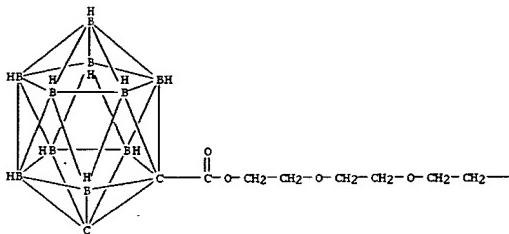
PAGE 1-B



RN 158565-50-5 CAPLUS  
CN 1,2-Dicarbobdecaborane(12)-1-carboxylic acid, 2-[2-(2-(2-nitro-1H-imidazol-1-yl)ethoxy]ethoxyethyl ester (9CI) (CA INDEX NAME)

L9 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2003 ACS (Continued)

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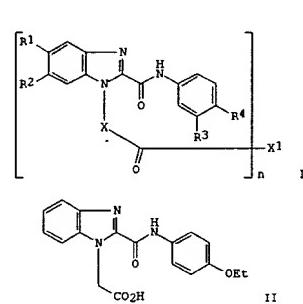


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L9 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1990:572021 CAPLUS  
 DOCUMENT NUMBER: 113:172021  
 TITLE: Preparation of benzimidazole-2-carboxanilides as light stabilizers  
 INVENTOR(S): Spang, Peter; Neumann, Peter; Trauth, Hubert  
 PATENT ASSIGNEE(S): BASF A.-G., Germany  
 SOURCE: Ger. Offen., 27 pp.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3828535	A1	19900308	DE 1988-3828535	19880823
US 4981975	A	19910101	US 1989-392300	19890811
CA 1317297	A1	19930504	CA 1989-608455	19890816
EP 361069	A1	19900404	EP 1989-115338	19890819
EP 361069	B1	19940615		
R: BE, CH, DE, ES, FR, GB, IT, LI, NL				
JP 02174764	A2	19900706	JP 1989-215142	19890823
US 4985566	A	19910115	US 1990-525049	19900518
PRIORITY APPLN. INFO.: DE 1988-3828535 19880823 US 1989-392300 19890811				
OTHER SOURCE(S):		MARPAT 113:172021		
		GI		



AB The title compds. (I; R1, R2 = H, Cl, alkyl, alkoxy, (substituted) Ph, phenylalkyl; R3, R4 = H, alkyl, alkoxyl, O-interrupted alkyl, alkoxy), were prep'd. Thus, 4'-ethoxybenzimidazole-1-carboxanilide and K2CO3 in DMF at 95-100°. degree. was treated with ClCH2CO2H over 150 min and the mixt. was stirred or addnl. 5h to give benzimidazoleacetate II. II Et ester at 1.0% (controls) to 15.6 YI (yellowness index).

L9 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2003 ACS (Continued)

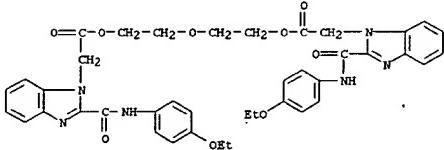
(substituted) Ph, PhO, phenylalkyl, hydroxyalkyl, alkyl carbonylamino, alkanoyloxy, PhCO2, PhCONH, etc.; X = Cl-5 alkylene; n = 1,2; when n = 1, then X1 = Cl, OR6, amino; when n = 2, then X1 = OX20, NR9X3NR9; R6 = H, (substituted) alkyl, cycloalkyl, alkenyl, phenylalkyl, etc.; R9 = H, alkyl, cycloalkyl, alkenyl, Ph, naphthyl, phenylalkyl; X2 = alkylene, alkenylene, cyclohexylene, O-interrupted alkylene; X3 = C6H4CH2C6H4, (O-interrupted) alkylene, cyclohexylene, piperazinylene, etc.), were prep'd. Thus, 4'-ethoxybenzimidazole-1-carboxanilide and K2CO3 in DMF at 95-100°. degree. was treated with ClCH2CO2H over 150 min and the mixt. was stirred or addnl. 5h to give benzimidazoleacetate II. II Et ester at 1.0% (controls) to 15.6 YI (yellowness index).

IT 129866-02-0P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prep. of, as light stabilizer)

RN 129866-02-0 CAPLUS

CN 1H-Benzimidazole-1-acetic acid, 2-[(4-ethoxyphenyl)amino]carbonyl-, oxydi-2,1-ethanediyl ester (9CI) (CA INDEX NAME)



L9 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1985:561258 CAPLUS  
 DOCUMENT NUMBER: 103:161258  
 TITLE: Hexahydropyrimidines as hindered amine light stabilizers  
 AUTHOR(S): Ramey, C. E.; Rostek, C. J.  
 CORPORATE SOURCE: Chem. Div., Ferro Corp., Bedford, OH, 44146, USA  
 SOURCE: ACS Symposium Series (1985), 280(Polym. Stab. Degrad.), 149-55

DOCUMENT TYPE: Journal  
 LANGUAGE: English

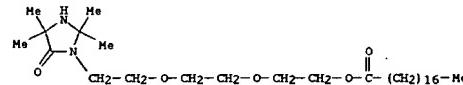
AB Isotactic polypropylene (I) [25085-53-4] films contg. 2,2,4,4,6-pentamethylhexahydropyrimidine (II) deriv. light stabilizers exhibited excellent Weather-Ometer lifetimes. A large extension of I film lifetime was produced by stabilizer formulations contg. the pyrimidine deriv. and a com. hydroxybenzoate. This effect was not evident when the pyrimidine deriv. contained an intramol. hydroxybenzoate group. II deriv., 2,2,5,5-tetramethyl-4-imidazolidinone deriv., and 4,4-dimethyloxazolidinone deriv. intermediates were used to evaluate the effects of derivatization and substitution on the activity of the resulting light stabilizers.

IT 90577-99-4P 90578-00-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(light stabilizer intermediates, for polypropylene)

RN 90577-99-4 CAPLUS

CN Octadecanoic acid, 2-[2-(2,2,4,4-tetramethyl-5-oxo-1-imidazolidinyl)ethoxy]ethyl ester (9CI) (CA INDEX NAME)

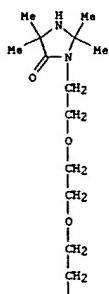


RN 90578-00-0 CAPLUS

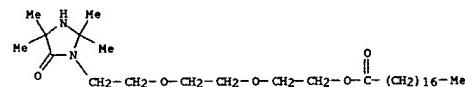
CN Benzoinic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, 2-[2-(2,2,4,4-tetramethyl-5-oxo-1-imidazolidinyl)ethoxy]ethyl ester (9CI) (CA INDEX NAME)

L9 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2003 ACS (Continued)

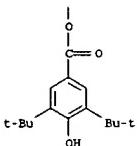
PAGE 1-A



L9 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1984:408092 CAPLUS  
 DOCUMENT NUMBER: 101:8092  
 TITLE: Hexahydropyrimidines as hindered amine light stabilizers  
 AUTHOR(S): Ramey, C. E.; Rostek, C. J.  
 CORPORATE SOURCE: Chem. Div., Ferro Corp., Bedford, OH, 44146, USA  
 SOURCE: Polymers Preprints (American Chemical Society, Division of Polymer Chemistry) (1984), 25(1), 36-7  
 CODEN: ACPPAY; ISSN: 0032-3934  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB A no. of hexahydropyrimidine, imidazolidone, and oxazolidine derivs. were evaluated as light stabilizers in polypropylene [9003-07-0], and correlation of stabilizer activity with compatibility and chem. structure was discussed.  
 IT 90577-99-4 90578-00-0  
 RL MOA (Modifier or additive use); USES (Uses)  
 (light stabilizers, for polypropylene)  
 RN 90577-99-4 CAPLUS  
 CN Octadecanoic acid, 2-[2-(2-(2,2,4,4-tetramethyl-5-oxo-1-imidazolidinyl)ethoxy)ethoxy]ethyl ester (9CI) (CA INDEX NAME)



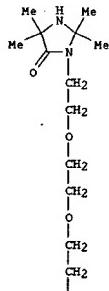
PAGE 2-A



RN 90578-00-0 CAPLUS  
 CN Benzoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, 2-[2-(2,2,4,4-tetramethyl-5-oxo-1-imidazolidinyl)ethoxy]ethoxyethyl ester (9CI) (CA INDEX NAME)

L9 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2003 ACS (Continued)

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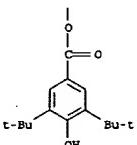
L9 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1982:105591 CAPLUS  
 DOCUMENT NUMBER: 96:105591  
 TITLE: Polyurea polymers formed from polyethers having terminal amino groups  
 INVENTOR(S): Schmidt, Oskar; Sibral, Walter  
 PATENT ASSIGNEE(S): Lim-Holding S. A., Luxembourg  
 SOURCE: U.S., 12 pp. Cont.-in-part of U.S. Ser. No. 9,640.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4260729	A	19810407	US 1980-109749	19800103
US 4153801	A	19790508	US 1976-735281	19761026
			US 1976-735281	19761026
			US 1979-9840	19790205
			AT 1975-8149	19751027
			AT 1975-8152	19751027
			AT 1975-8153	19751027
			AT 1975-8154	19751027

AB Polyurea elastomers N,N'-polyisobutylated 5,5-dimethylhydantoin tires, belts, shoe soles, etc. are prep'd. from bis[*o*-amino(thio)benzoates] of N-heterocyclic diols. Thus, heating N,N'-polyisobutylated 5,5-dimethylhydantoin 84.8, isatoic anhydride 35.9, and NaOH 2.0 g 3 h at 60 degree, and briefly at 110 degree, gives 105.3 g diester. Heating 106.8 g this compd. and 18.5 g TDI at 60 degree, and 24 h at 100 degree, gives a polyurea [63306-99-1] rubber with tensile strength 310 kg/cm<sup>2</sup> and structural strength 50 kg/cm, and Shore hardness 100.

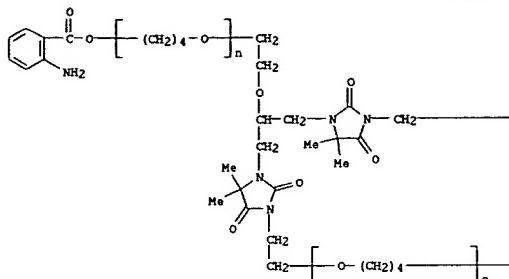
IT 63306-99-0  
 RL IMA (Industrial manufacturer); PREP (Preparation)  
 (manuf. of for prepn. of polyurea elastomers)  
 RN 63306-99-0 CAPLUS  
 CN Poly(oxy-1,4-butenediy), .alpha.-hydro-.omega.-[(2-aminobenzoyl)oxy]-, ether with 1,1'-(2-(2-hydroxyethoxy)-1,3-propanediyl)bis[3-(2-hydroxyethyl)-5,5-dimethyl-2,4-imidazolidinedione] (3:1) (9CI) (CA INDEX NAME)

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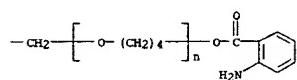


L9 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2003 ACS (Continued)

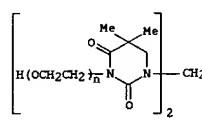
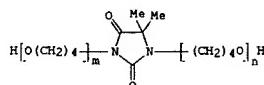
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L9 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2003 ACS (Continued)



AB Compds. such as I and II were treated with isatoic anhydride (III) [118-48-9] to prep. 2-aminobenzoate diesters which were polymd. with TDI or bis(4-isocyanatophenyl)methane to prep. polyureas with good heat resistance and high tensile strength. Thus, 84.4 g (0.1 mol) I was mixed with 35.9 g III and 2.0 g NaOH and heated at 80-110.degree. to prep. an aminobenzoate diester which was mixed (108.8 g, 0.1 mol) with 18.5 g TDI and heated at 60.degree. for 1 h and at 100.degree. for 24 h to prep. and elastomer with tensile strength 310 kg/cm<sup>2</sup>.

IT 63307-00-6

RL: USES (Uses)  
(rubber, heat-resistant)

RN 63307-00-6 CAPLUS

CN Poly(oxy-1,4-butanediyl), .alpha.-hydro-.omega.-[(2-aminobenzoyl)oxy]-, ether with 1,1'-(2-(2-hydroxyethoxy)-1,3-propanediyl)bis[3-(2-hydroxyethyl)-5,5-dimethyl-2,4-imidazolidinedione] (3:1), polymer with 1,3-disiocyanatomethylbenzene (9Cl) (CA INDEX NAME)

CM 1

CRN 63306-99-0  
GMP (C4 H8 O)n (C4 H8 O)n C40 H47 N7 O11  
CC1 PMS

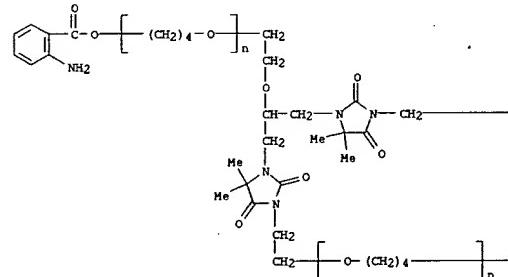
L9 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 1977:24520 CAPLUS  
DOCUMENT NUMBER: 87:24520  
TITLE: Terminal amino group-containing polyethers  
INVENTOR(S): Schmidt, Oskar; Sibral, Walter  
PATENT ASSIGNEE(S): Polyair Maschinenbau G.m.b.H., Austria  
SOURCE: Ger. Offen., 34 pp.  
CODEN: GWXXBX  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2648825	A1	19770428	DE 1976-2648825	19761027
DE 2648825	C2	19830601		
AT 7508152	A	19770415	AT 1975-8152	19751027
AT 340688	B	19771227		
AT 7508153	A	19770415	AT 1975-8153	19751027
AT 340689	B	19771227		
AT 7508149	A	19770615	AT 1975-8149	19751027
AT 341784	B	19780227		
AT 7508154	A	19770615	AT 1975-8154	19751027
AT 341786	B	19780227		
DD 127235	C	19770914	DD 1976-195439	19761025
ES 453218	A1	19780501	ES 1976-453218	19761026
AU 7619018	A1	19780504	AU 1976-19018	19761026
AU 507217	B2	19800207		
CA 1080227	A1	19800624	CA 1976-264244	19761026
BE 847681	A1	19770214	BE 1976-171829	19761027
SE 7611938	A	19770428	SE 1976-111938	19761027
NL 7611907	A	19770429	NL 1976-111907	19761027
JP 52068296	A2	19770606	JP 1976-129257	19761027
BR 7607242	A	19770913	BR 1976-7242	19761027
FR 2347352	A1	19771104	FR 1976-32401	19761027
FR 2347352	B1	19821008		
GB 1540153	A	19790207	GB 1976-44678	19761027
PRIORITY APPLN. INFO.:				
AT 1975-8149			AT 1975-8149	19751027
AT 1975-8152			AT 1975-8152	19751027
AT 1975-8153			AT 1975-8153	19751027
AT 1975-8154			AT 1975-8154	19751027

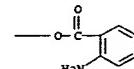
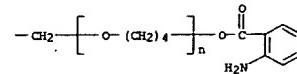
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L9 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2003 ACS (Continued)

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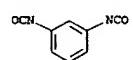


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CM 2

CRN 26471-62-5  
CNP C9 H6 N2 O2  
CC1 IDS



D1-Me

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=> log y
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                                ENTRY        SESSION
FULL ESTIMATED COST          55.68         363.12
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE      TOTAL
                                                ENTRY        SESSION
CA SUBSCRIBER PRICE           -7.81          -9.11
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